

Figure 1A

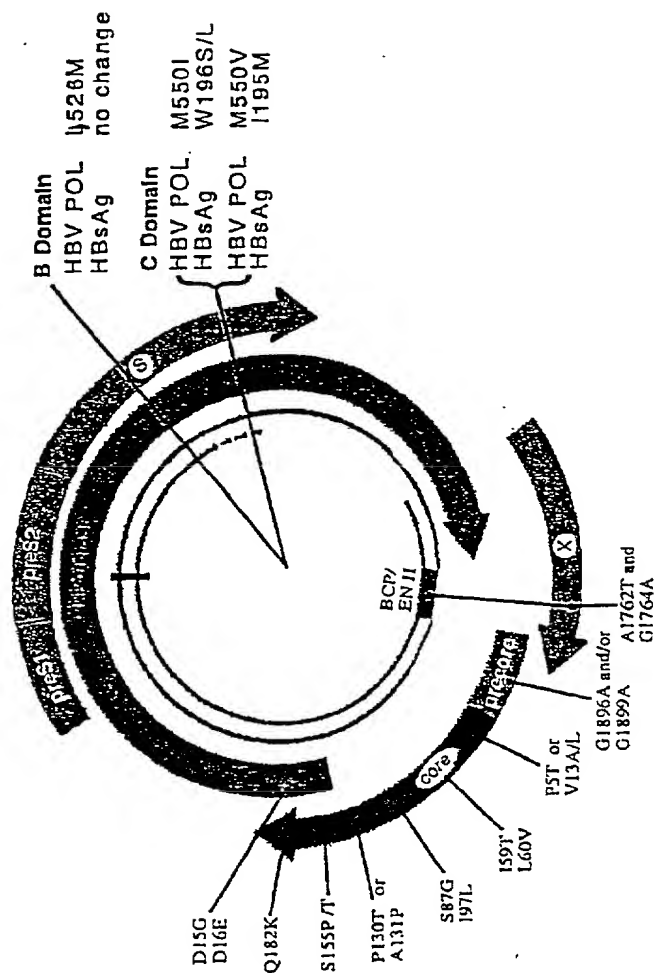


Figure 1B

(421) 430 440 450
 422 438
SNDSLWSLSLD VSAAFYHI_PPL HPAAMPHLLIV GSSGL_PSRYVA

Domain A

HBsAg G112R T123P Y/F134S D144E G145R
 460 470 480 490
 464 466 477 488 499
 RLSST_NSR_NNI*_N NY_HQY_HG_R***D_NLH D_NY_SCSR_DQLYVS LL_MLLYK_QTY_FGR_W

HBsAg A157D E164D F170L
 500 510 520 530
 512 519 523/524/526/528/530
 KLHLY_LSAHP_II_V LGFRK_ILPMG_VG GLSPFLLAQF TSAIC_LSA_VM_TR_CR

Domain B

HBsAg W196L W199S
M195I/S196W M198I S204T S210R
 540 550 560
 546 550 553 559 565
 AFF_PHCL_VA_VFS_AY MDDV_LMVLGAK_RS_T V_GQ_EHL_SR_ES_FLY_FTA_SA

Domain C

570 580 590
 575
 I_VT_CN_SF_VLLS_DL_VGI HLNP_NO_KTKRW GYSLNFMGYI_VI G

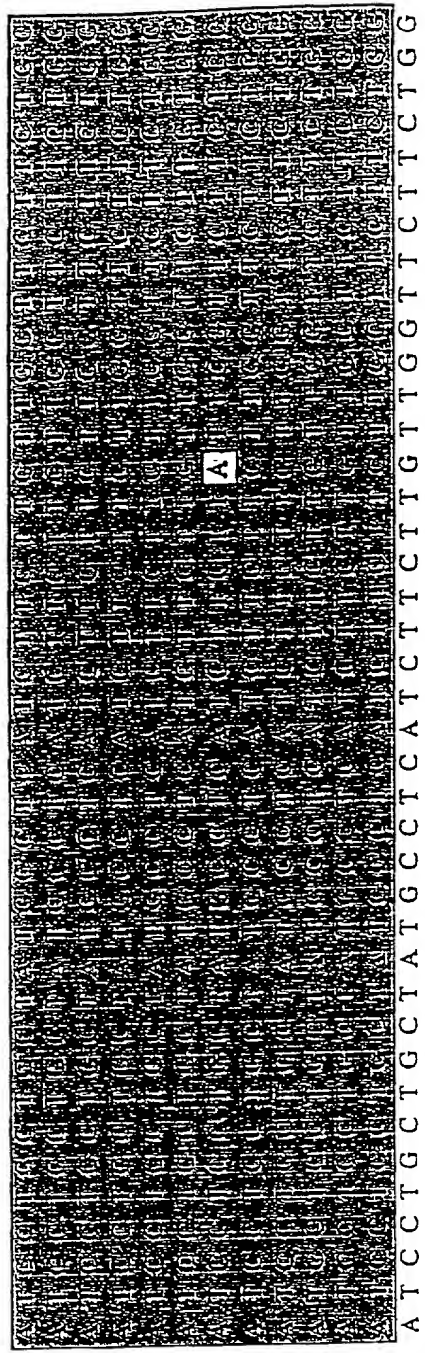
Domain D

Domain E

Figure 2

HPBADR1CG HPBADW3 HPBCG XXHEPAV HBVAWE HBVAWC HBVADW2 HBVADRM HBVADR4 HPBAYW HBVAWYWMCG HPBADW1

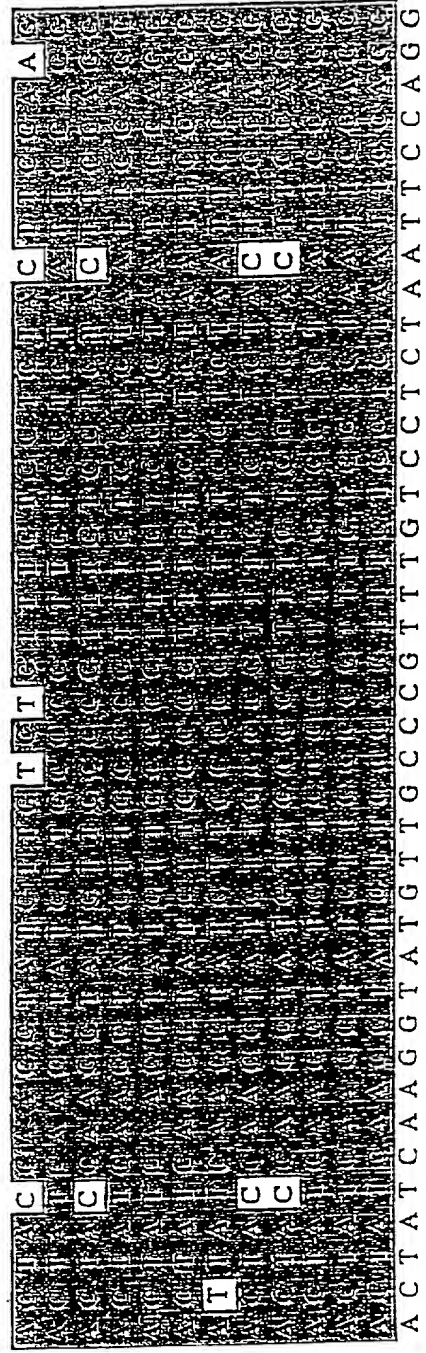
*329616/HPBADR1CG
221499/HPBADW3
221500/HPBCG
62280/XXHEPAV
59439/HBVAWE
59429/HBVAWC
59418/HBVADW2
59408/HBVADRM
59404/HBVADR4
329640/HPBAYW
313780/HBVAWYWMCG
229417/HPBADW1



ATCCCTGCTGCTATGCTCTCTCTTGGTTCTTCTCTGG

P₁₀₈ L L₁₁₀ P R

*329616/HPBADR1CG
221499/HPBADW3
221500/HPBCG
62280/XXHEPAV
59439/HBVAWE
59429/HBVAWC
59418/HBVADW2
59408/HBVADRM
59404/HBVADR4
329640/HPBAYW
313780/HBVAWYWMCG
229417/HPBADW1



ACTATCAAGGTAATGTTGCCCCGTTTGTCCCTCTAATTCCAGG

Figure 3

T S T T S T G P₁₂₀ C K T C T
 ATCATCAAC . ACCAGCACGGGACCATTGCCAAGACCTGCCACG

[illegible]

Figure 3 continued

*329616/HPBADR1CG
221499/HPBADW3
221500/HPBCG
62280/XXHEPAV
59439/HBVAYWE
59429/HBVAYWC
59418/HBVADW2
59408/HBVADRM
59404/HBVADR4
329640/HPBAYW
313780/HBVAYWMCG
229417/HPBADW1

221329616/HPBADR1CG
221329616/HPBADR1CG
221499/HPBADW3
221500/HPBCG
62280/XXHEPAV
59439/HBVAYWE
59429/HBVAYWC
59418/HBVADW2
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329640/HPBAYW
313780/HBVAYWMC
229417/HPBADW1

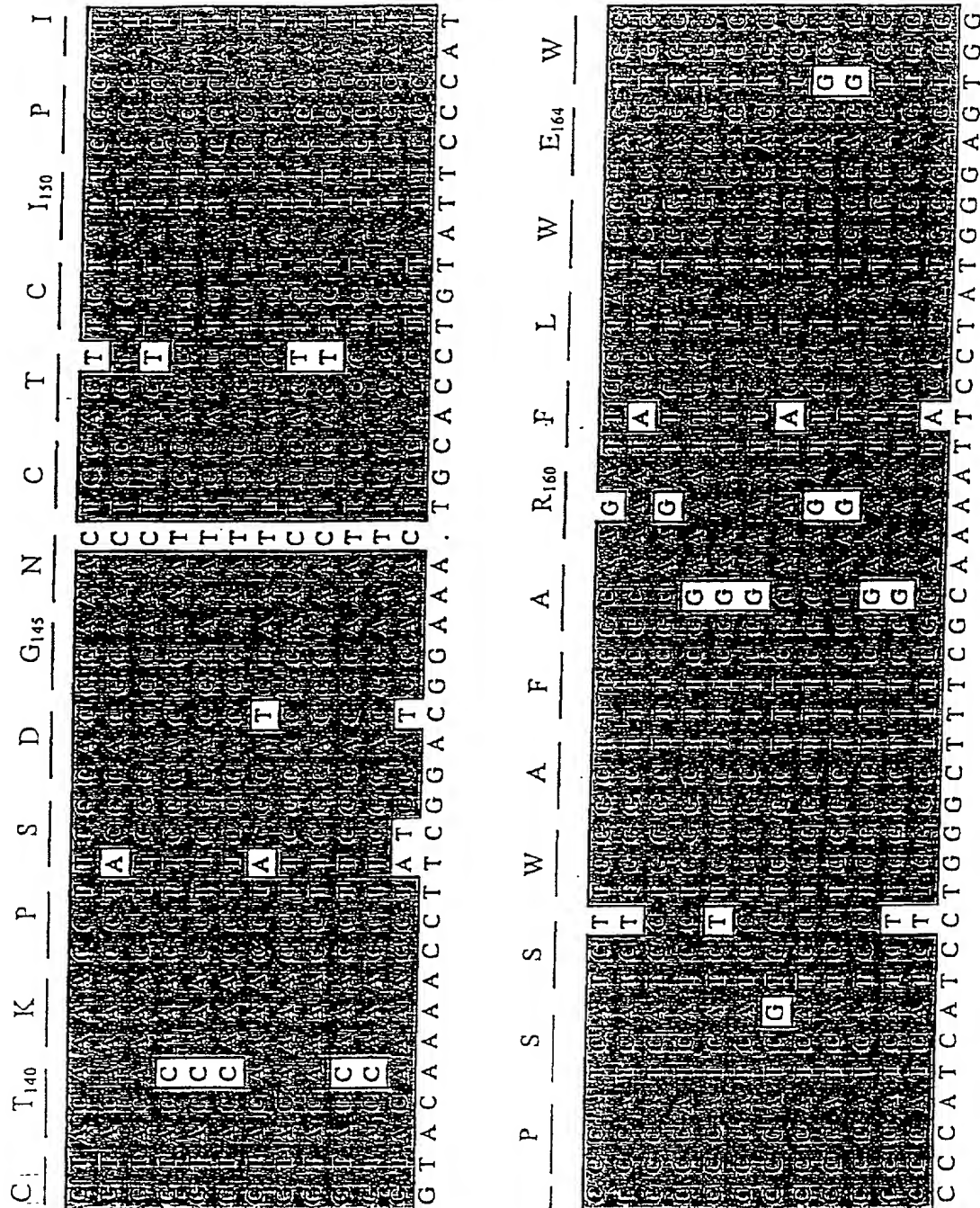
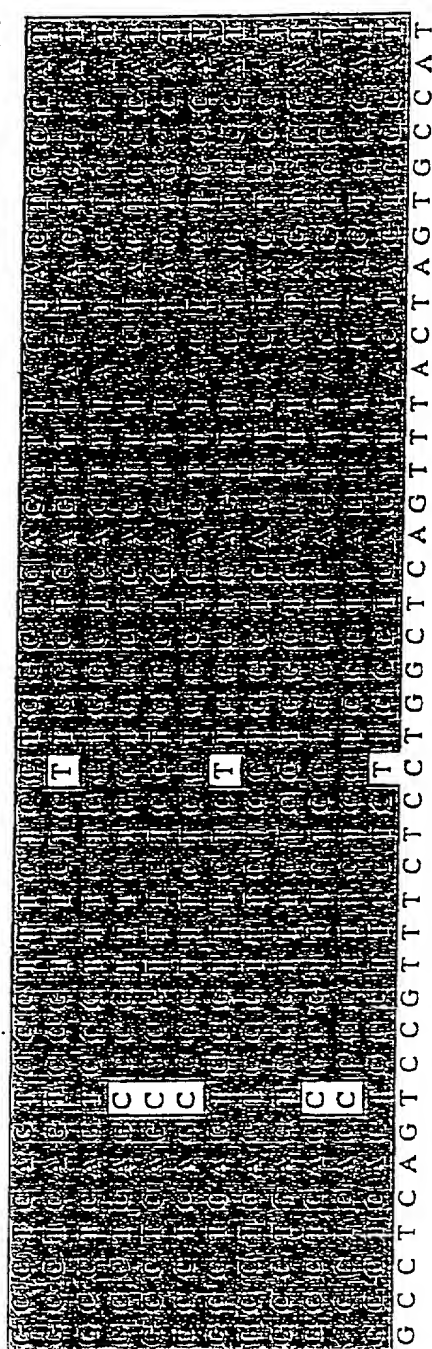


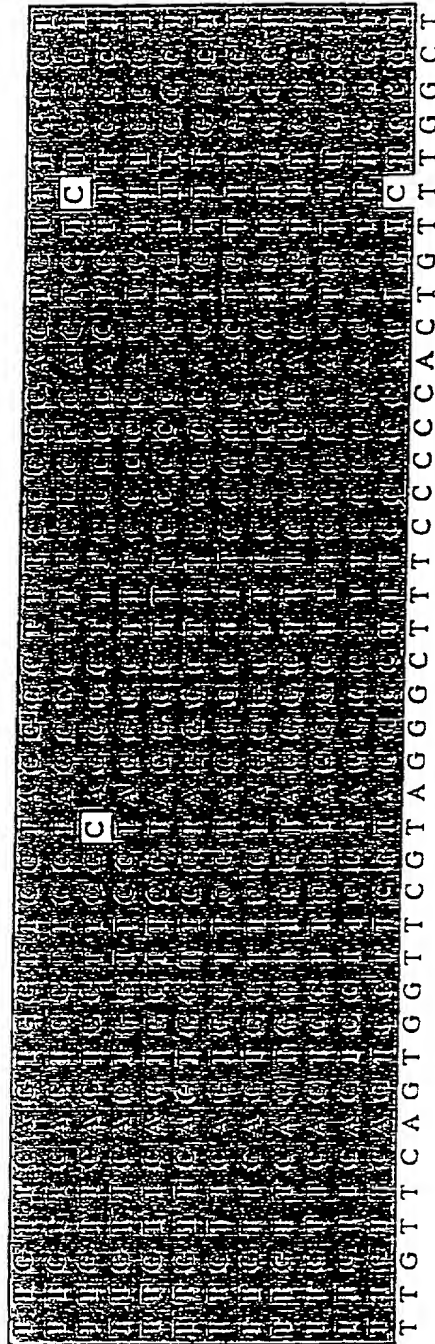
Figure 3 continued

A S V R F₁₇₀ S W L S L L V P



G C C T C A G T C C G T T T C T C C T G G C T C A G T T T A C T A G T G C C A T

F V₁₈₀ Q W F V G L S P T V₁₉₀ W₁₉₁ L₁₉₂



T T G T T C A G T G G T T C G T A G G G C T T T C C C C C A C T G T T T G G C T

*329616/HPBADR1CG
221499/HPBADW3
221500/HPBCG
62280/XXHEPAV
59439/HBVA YWE
59429/HBVA YWC
59418/HBVADW2
59408/HBVADRM
59404/HBVADR4
329640/HPBAYW
313780/HBVAYWMCG
229417/HPBADW1

*329616/HPBADR1CG
221499/HPBADW3
221500/HPBCG
62280/XXHEPAV
59439/HBVA YWE
59429/HBVA YWC
59418/HBVADW2
59408/HBVADRM
59404/HBVADR4
329640/HPBAYW
313780/HBVAYWMCG
229417/HPBADW1

Figure 3 continued

[illegible]

Y N I L S₂₁₀ P F L P L P I

TACA
A A A G G G G A A G G A
C A T C T T G A G T C C C T T T T A C C G C T G T T A C C A A T T T

Figure 3 continued

[illegible]

Figure 3 continued



Figure 4A

pBBHBV1.5

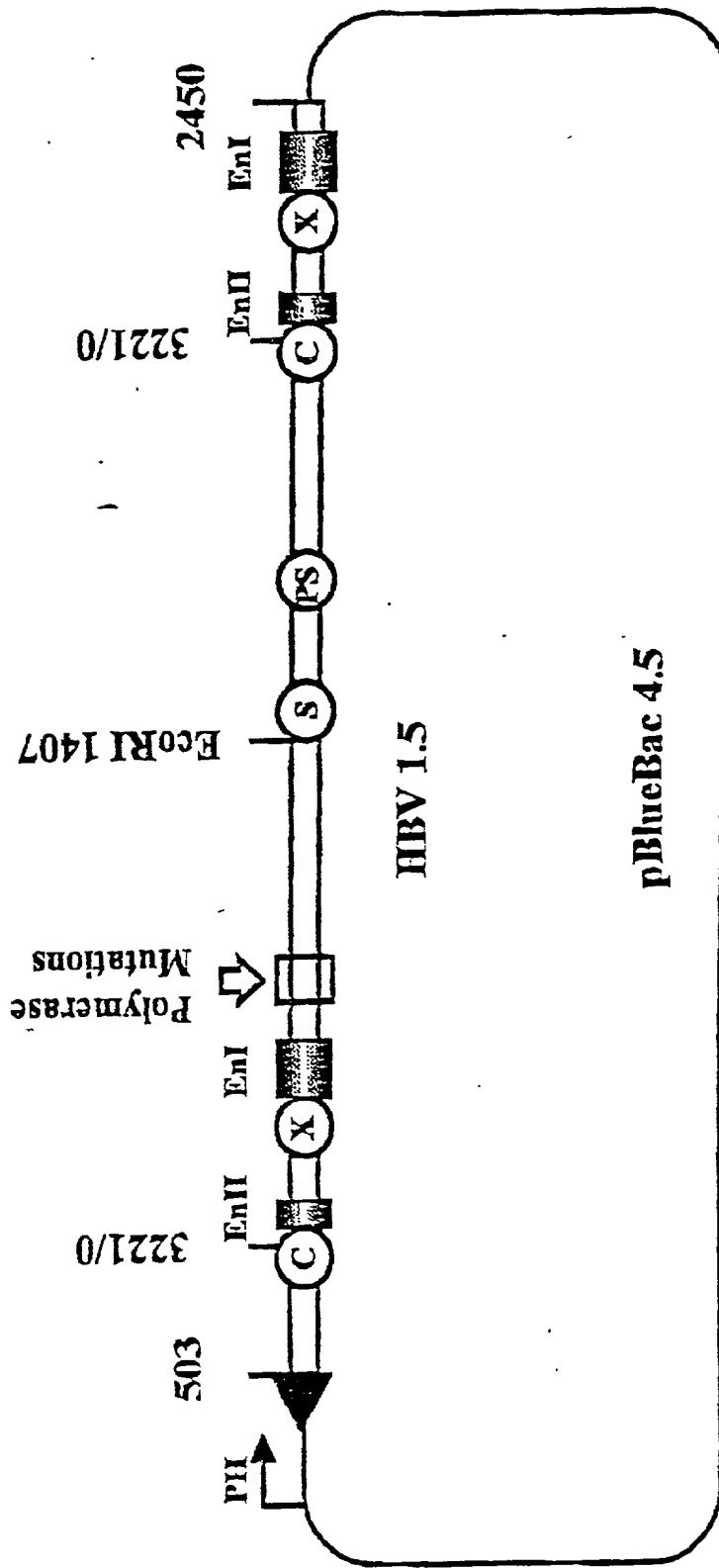


Figure 4B

Sequence Range: 1 to 4084

```
      10      20      30      40      50
GGACGACCCCTCGCGGGGCGCTTGGGACTCTCTCGTCCCCTTCTCCGTC

      60      70      80      90     100
TGCCGTTCCAGCCGACCACGGGGCGCACCTCTCTTTACGCGGTCTCCCCG

     110     120     130     140     150
TCTGTGCCTTCTCATCTGCCGGTCCGTGTGCACTTCGCTTCACCTCTGCA

     160     170     180     190     200
CGTTGCATGGAGACCACCGTGAACGCCCATCAGATCCTGCCCAAGGTCTT

     210     220     230     240     250
ACATAAGAGGACTCTTGGACTCCCAGCAATGTCAACGACCGACCTTGAGG

     260     270     280     290     300
CCTACTTCAAAGACTGTGTGTTTAAGGACTGGGAGGAGCTGGGGGAGGAG

     310     320     330     340     350
ATTAGGTTAAAGGTCTTTGTATTAGGAGGCTGTAGGCATAAATTGGTCTG

     360     370     380     390     400
CGCACCAGCACCATGCAACTTTTTACCTCTGCCTAATCATCTCTTGTAC

     410     420     430     440     450
ATGTCCCCTGTTCAAGCCTCCAAGCTGTGCCTTGGGTGGCTTTGGGGCA

     460     470     480     490     500
TGGACATTGACCCTTATAAAGAATTTGGAGCTACTGTGGAGTTACTCTCG

     510     520     530     540     550
TTTTTGCCTTCTGACTTCTTTCCTTCGGTCAGAGATCTCCTAGACACCGC

     560     570     580     590     600
CTCAGCTCTGTATCGAGAAGCCTTAGAGTCTCCTGAGCATTGCTCACCTC

     610     620     630     640     650
ACCATACTGCACTCAGGCAAGCCATTCTCTGCTGGGGGGAATTGATGACT

     660     670     680     690     700
CTAGCTACCTGGGTGGGTAATAATTTGGAAGATCCAGCATCCAGGGATCT
```

Figure 5A

710 720 730 740 750
AGTAGTCAATTATGTTAATACTAACATGGGTTTAAAGATCAGGCAACTAT

760 770 780 790 800
TGTGGTTTCATATATCTTGCCTTACTTTTGAAGAGAGACTGTACTTGAA

810 820 830 840 850
TATTTGGTCTCTTTTCGGAGTGTGGATTGCGACTCCTCCAGCCTATAGACC

860 870 880 890 900
ACCAAATGCCCCCTATCTTATCAACACTTCCGGAACTACTGTTGTTAGAC

910 920 930 940 950
GACGGGACCGAGGCAGGTCCCCTAGAAGAAGAACTCCCTCGCCTCGCAGA

960 970 980 990 1000
CGCAGATCTCAATCGCCGCGTCGCAGAAGATCTCAATCTCGGGAATCTCA

1010 1020 1030 1040 1050
ATGTTAGTATTCCTTGGACTCATAAGGTGGGAACTTTACGGGGCTTTAT

1060 1070 1080 1090 1100
TCCTCTACAGTACCTATCTTTAATCCTGAATGGCAAACCTTCCTTTCC

1110 1120 1130 1140 1150
TAAGATTCAATTTACAAGAGGACATTATTAATAGGTGTCAACAATTTGTGG

1160 1170 1180 1190 1200
GCCCTCTCACTGTAAATGAAAAGAGAAGATTGAAATTAATTATGCCTGCT

1210 1220 1230 1240 1250
AGATTCTATCCTACCCACACTAAATATTTGCCCTTAGACAAAGGAATTAA

1260 1270 1280 1290 1300
ACCTTATTATCCAGATCAGGTAGTTAATCATTACTTCCAAACCAGACATT

1310 1320 1330 1340 1350
ATTACATACTCTTTGGAAGGCTGGTATTCTATATAAGAGGGAAACCACA

1360 1370 1380 1390 1400
CGTAGCGCATCATTTTGCGGGTCACCATATTCTTGGAACAAGAGCTACA

1410 1420 1430 1440 1450
GCATGGGAGGTTGGTCATCAAAACCTCGCAAAGGCATGGGGACGAATCTT

Figure 5A continued

1460 1470 1480 1490 1500
TCTGTTCCCAACCCTCTGGGATTCTTTCCCGATCATCAGTTGGACCCTGC

1510 1520 1530 1540 1550
ATTTCGGAGCCAACTCAAACAATCCAGATTGGGACTTCAACCCCATCAAGG

1560 1570 1580 1590 1600
ACCACTGGCCAGCAGCCAACCAGGTAGGAGTGGGAGCATTCGGGCCAGGG

1610 1620 1630 1640 1650
CTCACCCCTCCACACGCGGTATTTTGGGGTGGAGCCCTCAGGCTCAGGG

1660 1670 1680 1690 1700
CATATTGACCACAGTGTCAACAATTCCTCCTCCTGCCTCCACCAATCGGC

1710 1720 1730 1740 1750
AGTCAGGAAGGCAGCCTACTCCCATCTCTCCACCTCTAAGAGACAGTCAT

1760 1770 1780 1790 1800
CCTCAGGCCATGCAGTGGAATTCCTGCCTTCCACCAAGCTCTGCAGGA

1810 1820 1830 1840 1850
TCCCAGAGTCAGGGGTCTGTATCTTCTGCTGGTGGCTCCAGTTCAGGAA

1860 1870 1880 1890 1900
CAGTAAACCCTGCTCCGAATATTGCCTCTCACATCTCGTCAATCTCCGCG

1910 1920 1930 1940 1950
AGGACTGGGGACCCTGTGACGAACATGGAGAACATCACATCAGGATTCTT

1960 1970 1980 1990 2000
AGGACCCCTGCTCGTGTTACAGGCGGGGTTTTTCTTGTTGACAAGAATCC

2010 2020 2030 2040 2050
TCACAATACCGCAGAGTCTAGACTCGTGGTGGACTTCTCTCAATTTTCTA

2060 2070 2080 2090 2100
GGGGGATCTCCCGTGTGTCTTGCCAAAATTTCGCAGTCCCCAACCTCCAA

2110 2120 2130 2140 2150
TCACTCACCAACCTCCTGTCCTCCAATTTGTCCTGGTTATCGCTGGATGT

2160 2170 2180 2190 2200
GTCTGCGGCGTTTTATCATATTCCTCTTCATCCTGCTGCTATGCCTCATC

Figure 5A continued

2210 2220 2230 2240 2250
TTCTTATTGGTTCTTCTGGATTATCAAGGTATGTTGCCCCGTTTGTCTCT

2260 2270 2280 2290 2300
AATTCCAGGATCAACAACAACCAGTACGGGACCATGCAAAACCTGCACGA

2310 2320 2330 2340 2350
CTCCTGCTCAAGGCAACTCTATGTTTCCCTCATGTTGCTGTACAAAACCT

2360 2370 2380 2390 2400
ACGGATGGAAATTGCACCTGTATTCCCATCCCATCGTCCTGGGCTTTTCG

2410 2420 2430 2440 2450
AAAATACCTATGGGAGTGGGCCTCAGTCCGTTTCTCTTGGCTCAGTTTAC

2460 2470 2480 2490 2500
TAGTGCCATTTGTTCAGTGGTTCGTAGGGCTTTCCCCCACTGTTTGGCTT

2510 2520 2530 2540 2550
TCAGCTATATGGATGATGTGGTATTGGGGGCCAAGTCTGTACAGCATCGT

2560 2570 2580 2590 2600
GAGTCCCTTTATACCGCTGTTACCAATTTTCTTTTGTCTCTGGGTATACA

2610 2620 2630 2640 2650
TTTAAACCCTAACAAAACAAAAGATGGGGTTATTCCCTAAACTTCATGG

2660 2670 2680 2690 2700
GCTACATAATTGGAAGTTGGGGAACCTTGCCACAGGATCATATTGTACAA

2710 2720 2730 2740 2750
AAGATCAAACACTGTTTTAGAAAACCTCCTGTTAACAGGCCTATTGATTG

2760 2770 2780 2790 2800
GAAAGTATGTCAAAGAATTGTGGGTCTTTTGGGCTTTGCTGCTCCATTTA

2810 2820 2830 2840 2850
CACAAATGTGGATATCCTGCCTTAATGCCTTTGTATGCATGTATACAAGCT

2860 2870 2880 2890 2900
AAACAGGCTTTCACTTTCTCGCCAACTTACAAGGCCTTTCTAAGTAAACA

2910 2920 2930 2940 2950
GTACATGAACCTTTACCCCGTTGCTCGGCAACGGCCTGGTCTGTGCCAAG

Figure 5A continued

2960 2970 2980 2990 3000
TGTTTGCTGACGCAACCCCACTGGCTGGGGCTTGGCCATAGGCCATCAG

3010 3020 3030 3040 3050
CGCATGCGTGGAACCTTTGTGGCTCCTCTGCCGATCCATACTGCCGAACT

3060 3070 3080 3090 3100
CCTAGCCGCTTGTTTTGCTCGCAGCCGGTCTGGAGCAAAGCTCATCGGAA

3110 3120 3130 3140 3150
CTGACAAATTCTGTCGTCTCTCGCGGAAATATACATCGTTTTCCATGGCTG

3160 3170 3180 3190 3200
CTAGGCTGTACTGCCAACTGGATCCTTCGCGGGACGTCCTTTGTTTACGT

3210 3220 3230 3240 3250
CCCGTCGGCGCTGAATCCCGCGGACGACCCCTCGCGGGGCCGCTTGGGAC

3260 3270 3280 3290 3300
TCTCTCGTCCCCTTCTCCGTCTGCCGTTCCAGCCGACCACGGGGCGCACC

3310 3320 3330 3340 3350
TCTCTTTACCGGGTCTCCCCGTCTGTGCCTTCTCATCTGCCGGTCCGTGT

3360 3370 3380 3390 3400
GCACCTTCGCTTCACCTCTGCACGTTGCATGGAGACCACCGTGAACGCCCCA

3410 3420 3430 3440 3450
TCAGATCCTGCCCAAGGTCTTACATAAGAGGACTCTTGGACTCCCAGCAA

3460 3470 3480 3490 3500
TGTC AACGACCGACCTTGAGGCCTACTTCAAAGACTGTGTGTTTAAGGAC

3510 3520 3530 3540 3550
TGGGAGGAGCTGGGGGAGGAGATTAGGTTAAAGGTCTTTGTATTAGGAGG

3560 3570 3580 3590 3600
CTGTAGGCATAAATTGGTCTGCGCACCAGCACCATGCAACTTTTTACCT

3610 3620 3630 3640 3650
CTGCCTAATCATCTCTTGTAATGTCCCACTGTTCAAGCCTCCAAGCTGT

3660 3670 3680 3690 3700
GCCTTGGGTGGCTTTGGGGCATGGACATTGACCCTTATAAGAATTTGGA

Figure 5A continued

3710 3720 3730 3740 3750
GCTACTGTGGAGTTACTCTCGTTTTTGCTTCTGACTTCTTTCCTTCCGT

3760 3770 3780 3790 3800
CAGAGATCTCCTAGACACCGCCTCAGCTCTGTATCGAGAAGCCTTAGAGT

3810 3820 3830 3840 3850
CTCCTGAGCATTGCTCACCTCACCATACTGCACTCAGGCAAGCCATTCTC

3860 3870 3880 3890 3900
TGCTGGGGGAATTGATGACTCTAGCTACCTGGGTGGGTAATAATTGGA

3910 3920 3930 3940 3950
AGATCCAGCATCCAGGGATCTAGTAGTCAATTATGTTAATACTAACATGG

3960 3970 3980 3990 4000
GTTTAAAGATCAGGCAACTATTGTGGTTTCATATATCTTGCCTTACTTTT

4010 4020 4030 4040 4050
GGAAGAGAGACTGTACTTGAATATTTGGTCTCTTTTCGGAGTGTGCATTCTG

4060 4070 4080
CACTCCTCCAGCCTATAGACCACCAAATGCCCCCT

Figure 5A continued

Sequence Range: 1 to 4496

```
      10      20      30      40      50
GATATCCTGCCTTAATGCCTTTGTATGCATGTATACAAGCTAAACAGGCT

      60      70      80      90     100
TTCACCTTTCTCGCCAACTTACAAGGCCTTTCTAAGTAAACAGTACATGAA

     110     120     130     140     150
CCTTTACCCCGTTGCTCGGCAACGGCCTGGTCTGTGCCAAGTGTTTGCTG

     160     170     180     190     200
ACGCAACCCCCACTGGCTGGGGCTTGGCCATAGGCCATCAGCGCATGCGT

     210     220     230     240     250
GGAACCTTTGTGGCTCCTCTGCCGATCCATACTGCGGAACTCCTAGCCGC

     260     270     280     290     300
TTGTTTTGCTCGCAGCCGGTCTGGAGCAAAGCTCATCGGAACTGACAATT

     310     320     330     340     350
CTGTGCTCCTCTCGCGGAAATATACATCGTTTCCATGGCTGCTAGGCTGT

     360     370     380     390     400
ACTGCCAACTGGATCCTTCGCGGGACGTCCTTTGTTTACGTCCCGTCGGC

     410     420     430     440     450
GCTGAATCCCGCGGACGACCCCTCGCGGGGCGCGCTTGGGACTCTCTCGTC

     460     470     480     490     500
CCCTTCTCCGTCTGCCGTTCCAGCCGACCACGGGGCGCACCTCTCTTTAC

     510     520     530     540     550
GCGGTCTCCCCGTCTGTGCCTTCTCATCTGCCGGTCCGTGTGCACTTCGC

     560     570     580     590     600
TTCACCTCTGCACGTTGCATGGAGACCACCGTGAACGCCCATCAGATCCT

     610     620     630     640     650
GCCCAAGGTCTTACATAAGAGGACTCTTGGACTCCCAGCAATGTCAACGA

     660     670     680     690     700
CCGACCTTGAGGCCTACTTCAAAGACTGTGTGTTTAAGGACTGGGAGGAG
```

Figure 5B

710 720 730 740 750
CTGGGGGAGGAGATTAGGTTAAAGGTCTTTGTATTAGGAGGCTGTAGGCA

760 770 780 790 800
TAAATTGGTCTGCGCACCAGCAGCATGCAACTTTTTACCTCTGCCTAAT

810 820 830 840 850
CATCTCTTGTACATGTCCCACTGTTCAAGCCTCCAAGCTGTGCCTTGGGT

860 870 880 890 900
GGCTTTGGGGCATGGACATTGACCCTTATAAAGAATTTGGAGCTACTGTG

910 920 930 940 950
GAGTTACTCTCGTTTTTGCCTTCTGACTTCTTTCCTTCCGTCAGAGATCT

960 970 980 990 1000
CCTAGACACCGCCTCAGCTCTGTATCGAGAAGCCTTAGAGTCTCCTGAGC

1010 1020 1030 1040 1050
ATTGCTCACCTCACCATACTGCACTCAGGCAAGCCATTCTCTGCTGGGGG

1060 1070 1080 1090 1100
GAATTGATGACTCTAGCTACCTGGGTGGGTAATAATTTGGAAGATCCAGC

1110 1120 1130 1140 1150
ATCCAGGGATCTAGTAGTCAATTATGTTAATACTAACATGGGTTTAAAGA

1160 1170 1180 1190 1200
TCAGGCAACTATTGTGGTTTCATATATCTTGCCTTACTTTTGGAGAGAG

1210 1220 1230 1240 1250
ACTGTACTTGAATATTTGGTCTCTTTCGGAGTGTGGATTCCGCACTCCTCC

1260 1270 1280 1290 1300
AGCCTATAGACCACCAAATGCCCCCTATCTTATCAACACTTCCGGAAACTA

1310 1320 1330 1340 1350
CTGTTGTTAGACGACGGGACCGAGGCAGGTCCCCTAGAAGAAGAACTCCC

1360 1370 1380 1390 1400
TCGCCTCGCAGACGCAGATCTCAATCGCCGCGTCGCAGAAGATCTCAATC

1410 1420 1430 1440 1450
TCGGGAATCTCAATGTTAGTATTCTTGGACTCATAAGGTGGGAACTTT

Figure 5B continued

1460 1470 1480 1490 1500
ACGGGGCTTTATTCCTCTACAGTACCTATCTTTAATCCTGAATGGCAAAC

1510 1520 1530 1540 1550
TCCTTCCTTTCCCTAAGATTCAATTTACAAGAGGACATTATTAATAGGTGTC

1560 1570 1580 1590 1600
AACAATTTGTGGGCCCTCTCACTGTAAATGAAAAGAGAAGATTGAAATTA

1610 1620 1630 1640 1650
ATTATGCCTGCTAGATTCTATCCTACCCACACTAAATATTTGCCCTTAGA

1660 1670 1680 1690 1700
CAAAGGAATTAAACCTTATTATCCAGATCAGGTAGTTAATCATTACTTCC

1710 1720 1730 1740 1750
AAACCAGACATTATTTACATACTCTTTGGAAGGCTGGTATTCTATATAAG

1760 1770 1780 1790 1800
AGGGAAACCACACGTAGCGCATCATTTTGC GGTCACCATATTCTTGGGA

1810 1820 1830 1840 1850
ACAAGAGCTACAGCATGGGAGGTTGGTCATCAAAACCTCGCAAAGGCATG

1860 1870 1880 1890 1900
GGGACGAATCTTTCTGTTCCCAACCCTCTGGGATTCTTTCCCGATCATCA

1910 1920 1930 1940 1950
GTTGGACCCTGCATTCGGAGCCAACCTCAAACAATCCAGATTGGGACTTCA

1960 1970 1980 1990 2000
ACCCCATCAAGGACCACTGGCCAGCAGCCAACCAGGTAGGAGTGGGAGCA

2010 2020 2030 2040 2050
TTCGGGCCAGGGCTCACCCCTCCACACGGCGGTATTTTGGGGTGGAGCCC

2060 2070 2080 2090 2100
TCAGGCTCAGGGCATATTGACCACAGTGTCAACAATTCCTCCTCCTGCCT

2110 2120 2130 2140 2150
CCACCAATCGGCAGTCAGGAAGGCAGCCTACTCCCATCTCTCCACCTCTA

2160 2170 2180 2190 2200
AGAGACAGTCATCCTCAGGCCATGCAGTGGAATTCCACTGCCTTCCACCA

Figure 5B continued

2210 2220 2230 2240 2250
AGCTCTGCAGGATCCCAGAGTCAGGGGTCTGTATCTTCCTGCTGGTGGCT

2260 2270 2280 2290 2300
CCAGTTCAGGAACAGTAAACCCTGCTCCGAATATTGCCTCTCACATCTCG

2310 2320 2330 2340 2350
TCAATCTCCGCGAGGACTGGGGACCCTGTGACGAACATGGAGAACATCAC

2360 2370 2380 2390 2400
ATCAGGATTCCTAGGACCCCTGCTCGTGTTACAGGCGGGGTTTTTCTTGT

2410 2420 2430 2440 2450
TGACAAGAATCCTCACAATACCGCAGAGTCTAGACTCGTGGTGGACTTCT

2460 2470 2480 2490 2500
CTCAATTTTCTAGGGGGATCTCCCGTGTGTCTTGGCCAAAATTGCGAGTC

2510 2520 2530 2540 2550
CCCAACCTCCAATCACTCACCAACCTCCTGTCTCCTCAATTTGTCTTGTT

2560 2570 2580 2590 2600
ATCGCTGGATGTGTCTGCGGCGTTTATCATATTCCTCTTCATCCTGCTG

2610 2620 2630 2640 2650
CTATGCCTCATCTTCTTATTGGTTCTTCTGGATTATCAAGGTATGTTGCC

2660 2670 2680 2690 2700
CGTTTGTCTCTAATTCCAGGATCAACAACAACCACTACGGGACCATGCA

2710 2720 2730 2740 2750
AAACCTGCACGACTCCTGCTCAAGGCAACTCTATGTTTCCCTCATGTTGC

2760 2770 2780 2790 2800
TGTACAAAACCTACGGATGGAAATTGCACCTGTATTCCCATCCCATCGTC

2810 2820 2830 2840 2850
CTGGGCTTTTCGAAAATACCTATGGGAGTGGGCCTCAGTCCGTTTCTCTT

2860 2870 2880 2890 2900
GGCTCAGTTTACTAGTGCCATTTGTTCAGTGGTTCGTAGGGCTTTCCCCC

2910 2920 2930 2940 2950
ACTGTTTGGCTTTTCAGCTATATGGATGATGTGGTATTGGGGGCCAAGTCT

Figure 5B continued

2960 2970 2980 2990 3000
GTACAGCATCGTGAGTCCCTTTATACCGCTGTTACCAATTTTCTTTTGTG

3010 3020 3030 3040 3050
TCTGGGTATACATTTAAACCCTAACAAAACAAAAGATGGGGTTATTCCC

3060 3070 3080 3090 3100
TAAACTTCATGGGCTACATAATTGGAAGTTGGGGAACCTTGCCACAGGAT

3110 3120 3130 3140 3150
CATATTGTACAAAAGATCAAACACTGTTTTAGAAAACCTTCTGTTAACAG

3160 3170 3180 3190 3200
GCCTATTGATTGGAAAGTATGTCAAAGAATTGTGGGTCTTTTGGGCTTTG

3210 3220 3230 3240 3250
CTGCTCCATTTACACAATGTGGATATCCTGCCTTAATGCCTTTGTATGCA

3260 3270 3280 3290 3300
TGTATACAAGCTAAACAGGCTTTCACTTTCTCGCCAACTTACAAGGCCTT

3310 3320 3330 3340 3350
TCTAAGTAAACAGTACATGAACCTTTACCCCGTTGCTCGGCAACGGCCTG

3360 3370 3380 3390 3400
GTCTGTGCCAAGTGTTTGCTGACGCAACCCCCACTGGCTGGGGCTTG GCC

3410 3420 3430 3440 3450
ATAGGCCATCAGCGCATGCGTGGAACCTTTGTGGCTCCTCTGCCGATCCA

3460 3470 3480 3490 3500
TACTGCGGAACTCCTAGCCGCTTGTTTTGCTCGCAGCCGGTCTGGAGCAA

3510 3520 3530 3540 3550
AGCTCATCGGAACTGACAATTCTGTCTCCTCTCGCGGAAATATACATCG

3560 3570 3580 3590 3600
TTTCCATGGCTGCTAGGCTGTACTGCCAACTGGATCCTTCGCGGGACGTC

3610 3620 3630 3640 3650
CTTTGTTTACGTCCCGTCGGCGCTGAATCCCGCGGACGCCCTCGCGGG

3660 3670 3680 3690 3700
GCCGCTTGGGACTCTCTCGTCCCCTTCTCCGTCTGCCGTTCCAGCCGACC

Figure 5B continued

3710 3720 3730 3740 3750
ACGGGGCGCACCTCTCTTTACGCGGTCTCCCCGTCTGTGCCTTCTCATCT

3760 3770 3780 3790 3800
GCCGGTCCGTGTGCACTTCGCTTCACCTCTGCACGTTGCATGGAGACCAC

3810 3820 3830 3840 3850
CGTGAACGCCCATCAGATCCTGCCCAAGGTCTTACATAAGAGGACTCTTG

3860 3870 3880 3890 3900
GACTCCCAGCAATGTCAACGACCGACCTTGAGGCCTACTTCAAAGACTGT

3910 3920 3930 3940 3950
GTGTTTAAGGACTGGGAGGAGCTGGGGGAGGAGATTAGGTTAAAGGTCTT

3960 3970 3980 3990 4000
TGTATTAGGAGGCTGTAGGCATAAATTGGTCTGCGCACCAGCACCATGCA

4010 4020 4030 4040 4050
ACTTTTTACCTCTGCCTAATCATCTCTTGTACATGTCCCACTGTTCAAG

4060 4070 4080 4090 4100
CCTCCAAGCTGTGCCTTGGGTGGCTTTGGGGCATGGACATTGACCCTTAT

4110 4120 4130 4140 4150
AAAGAATTTGGAGCTACTGTGGAGTTACTCTCGTTTTTGCCTTCTGACTT

4160 4170 4180 4190 4200
CTTTCCTTCCGTGAGAGATCTCCTAGACACCGCCTCAGCTCTGTATCGAG

4210 4220 4230 4240 4250
AAGCCTTAGAGTCTCCTGAGCATTGCTCACCTCACCATACTGCACTCAGG

4260 4270 4280 4290 4300
CAAGCCATTCTCTGCTGGGGGAATTGATGACTCTAGCTACCTGGGTGGG

4310 4320 4330 4340 4350
TAATAATTTGGAAGATCCAGCATCCAGGGATCTAGTAGTCAATTATGTTA

4360 4370 4380 4390 4400
ATACTAACATGGGTTTAAAGATCAGGCAACTATTGTGGTTTCATATATCT

4410 4420 4430 4440 4450
TGCCTTACTTTTGAAGAGAGACTGTACTTGAATATTTGGTCTCTTTCGG

4460 4470 4480 4490
AGTGTGGATTTCGCACTCCTCCAGCCTATAGACCACCAAATGCCCT

Figure 5B continued

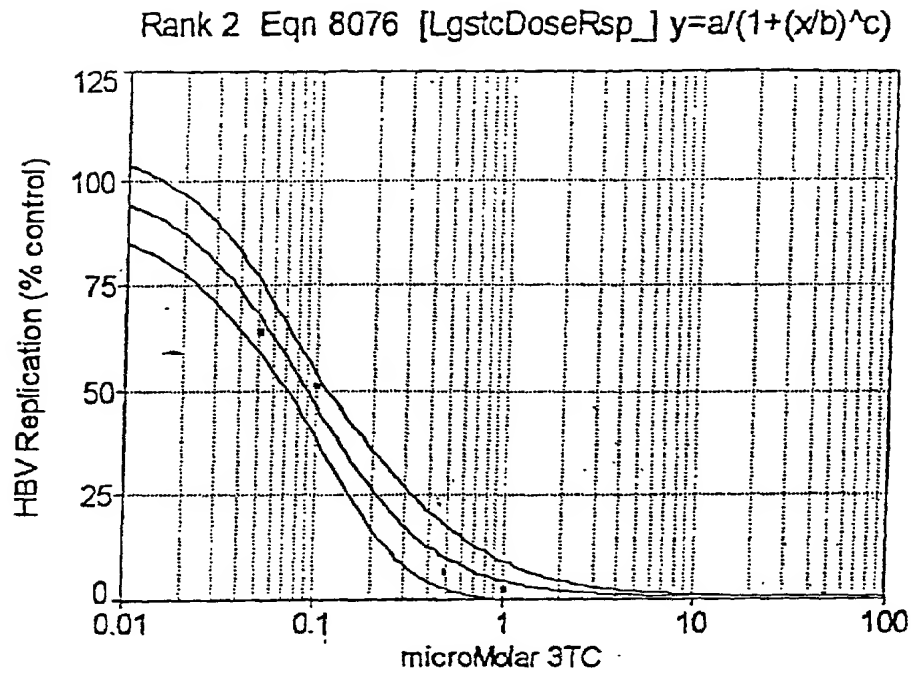


Figure 6A

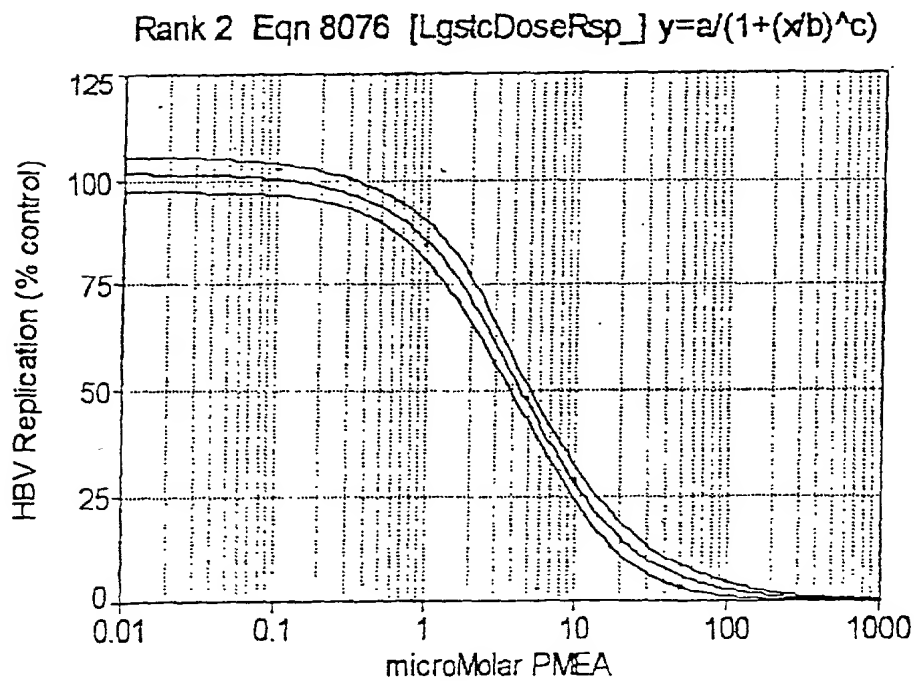


Figure 6B

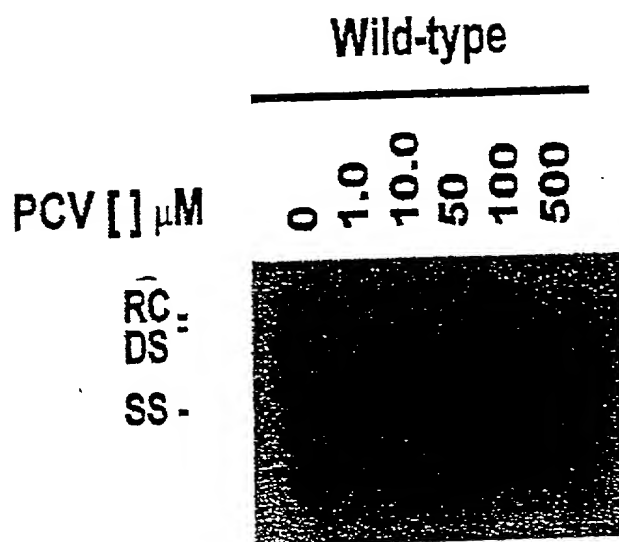


Figure 6C

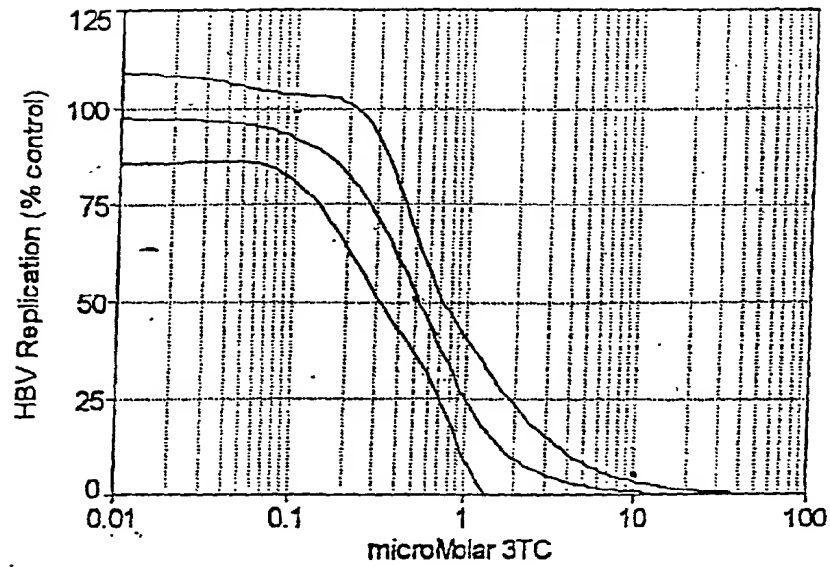
Rank 2 Eqn 8076 [LgstrDoseRsp_] $y=a/(1+(x/b)^c)$ 

Figure 7A

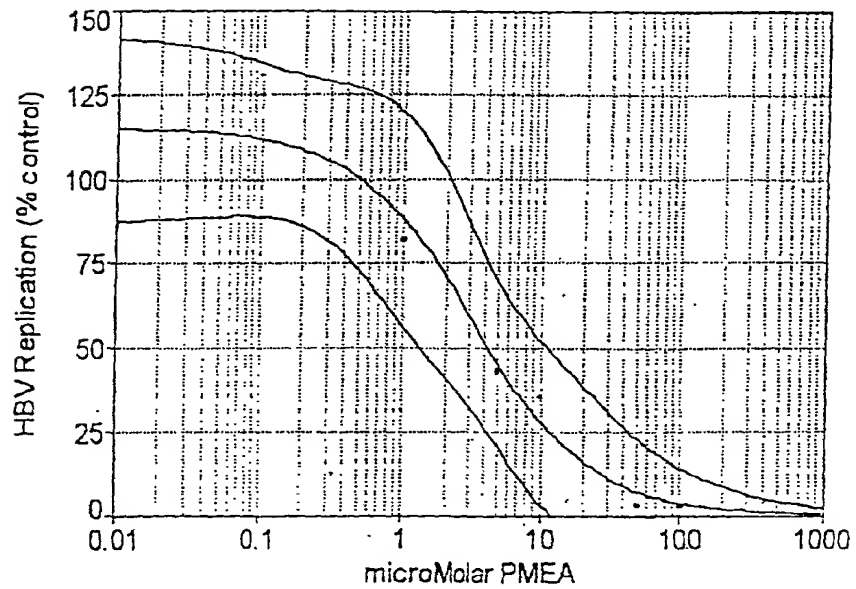
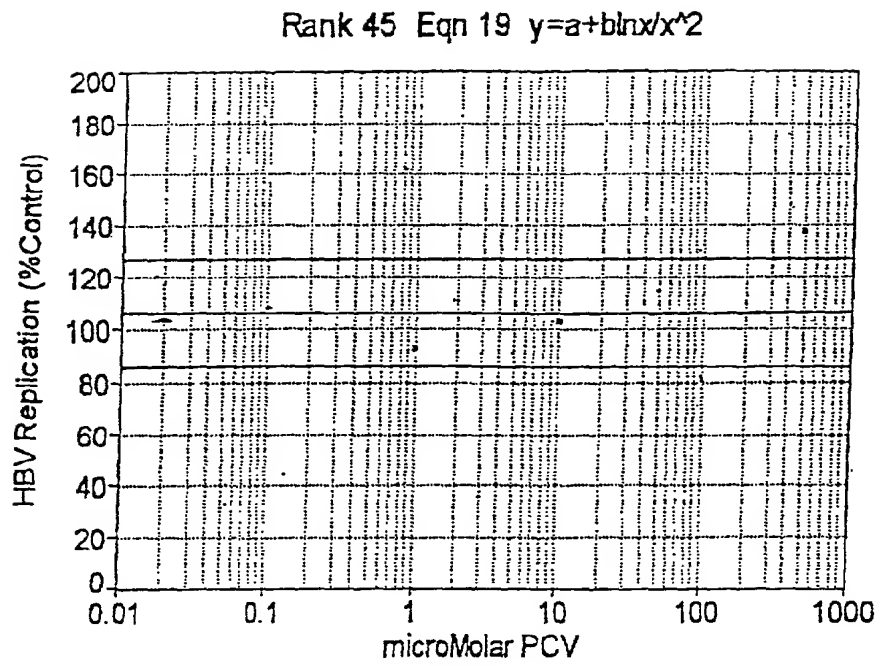
Rank 2 Eqn 8076 [LgstrDoseRsp_] $y=a/(1+(x/b)^c)$ 

Figure 7B

**Figure 7C**

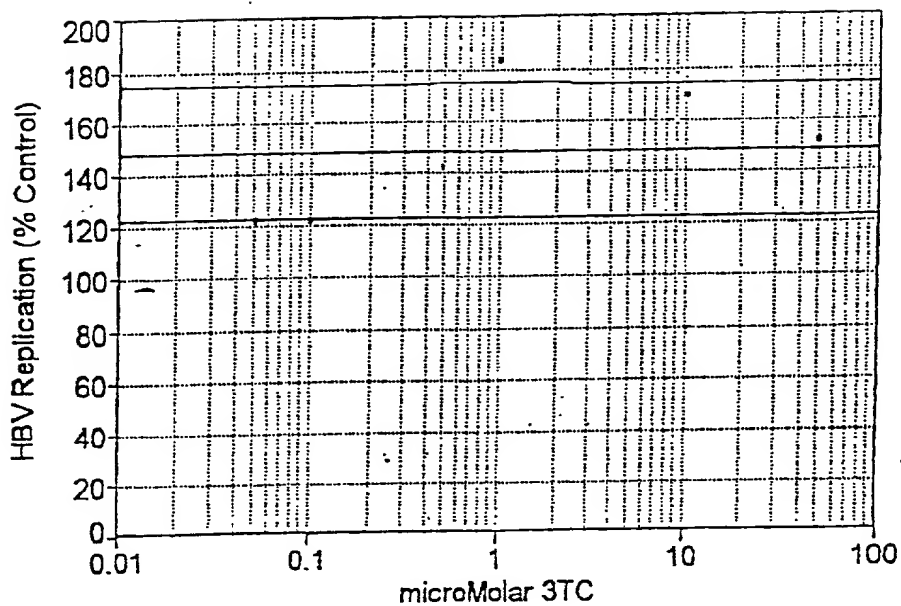
Rank 8 Eqn 10 $y=a+b(\ln x)^2$ 

Figure 8A

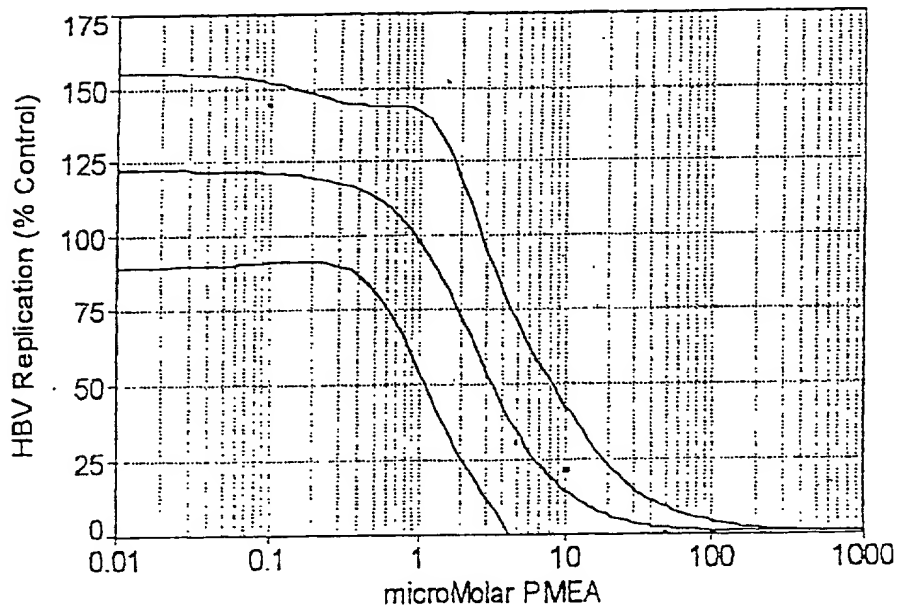
Rank 2 Eqn 8076 [LgstcDoseRsp] $y=a/(1+(x/b)^c)$ 

Figure 8B

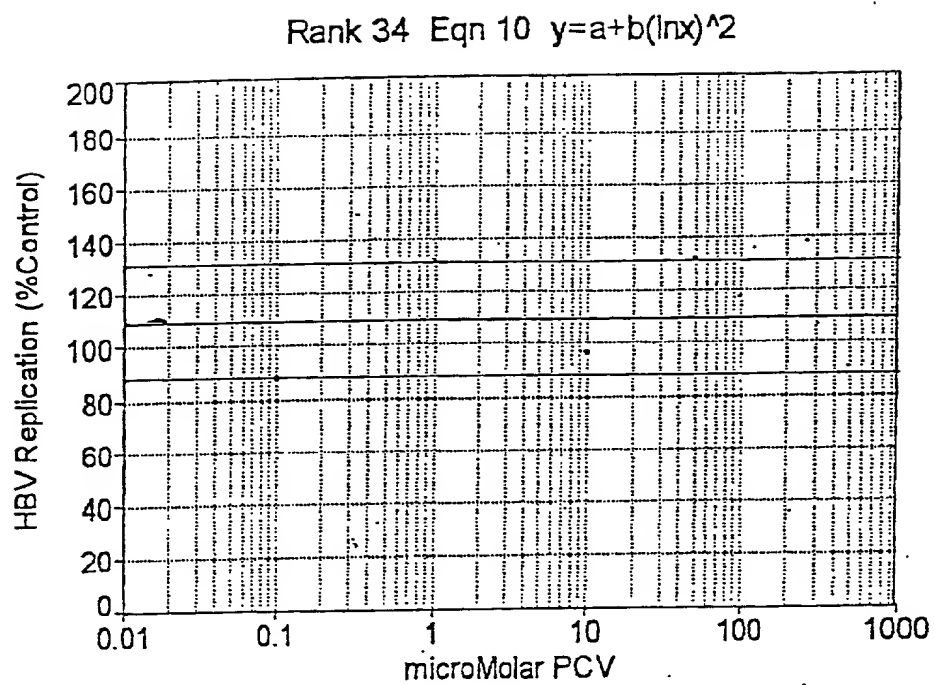


Figure 8C

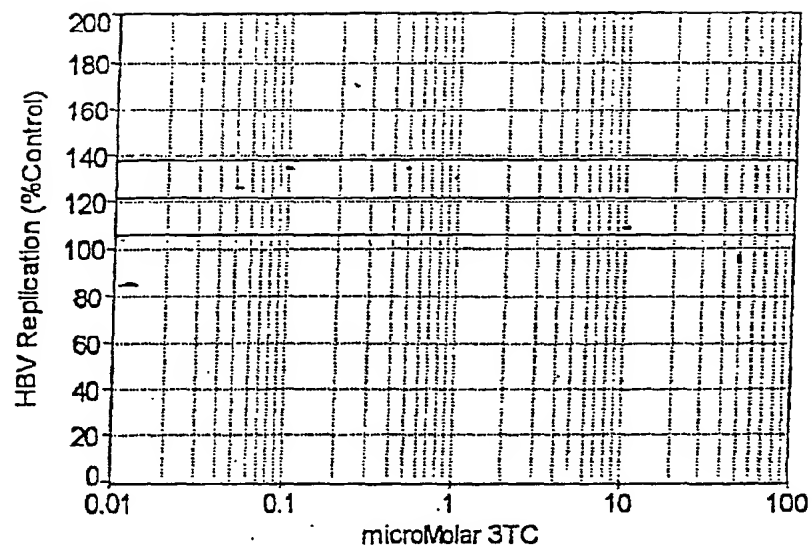
Rank 45 Eqn 10 $y=a+b(\ln x)^2$ 

Figure 9A

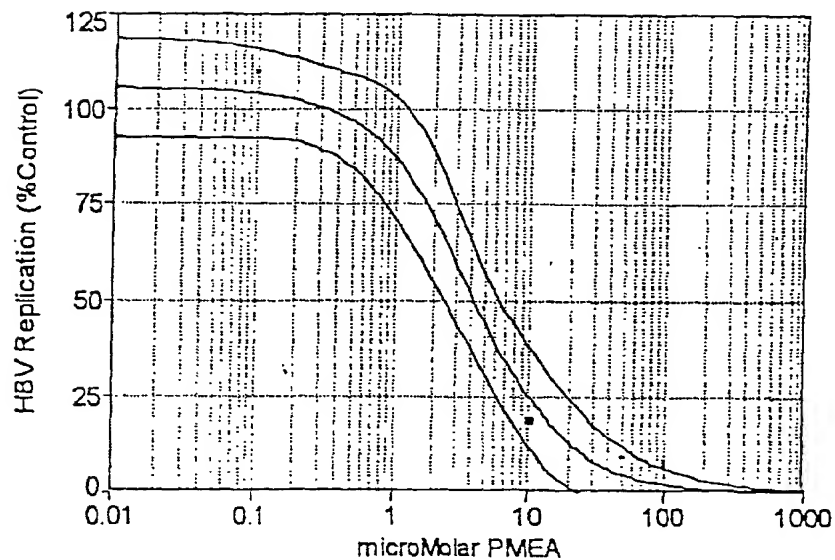
Rank 2 Eqn 8076 [LgstoDoseRsp_] $y=a/(1+(x/b)^c)$ 

Figure 9B

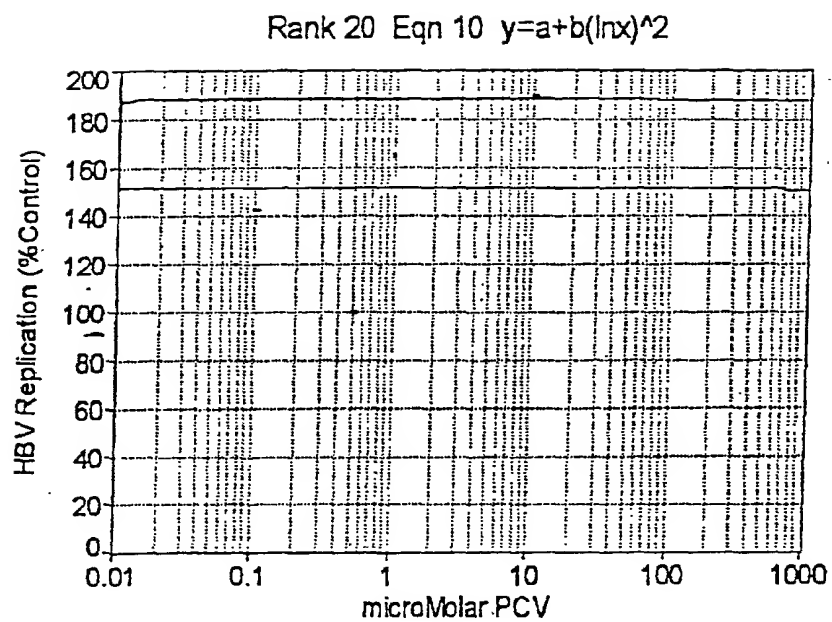


Figure 9C

Cold dCTP Competition

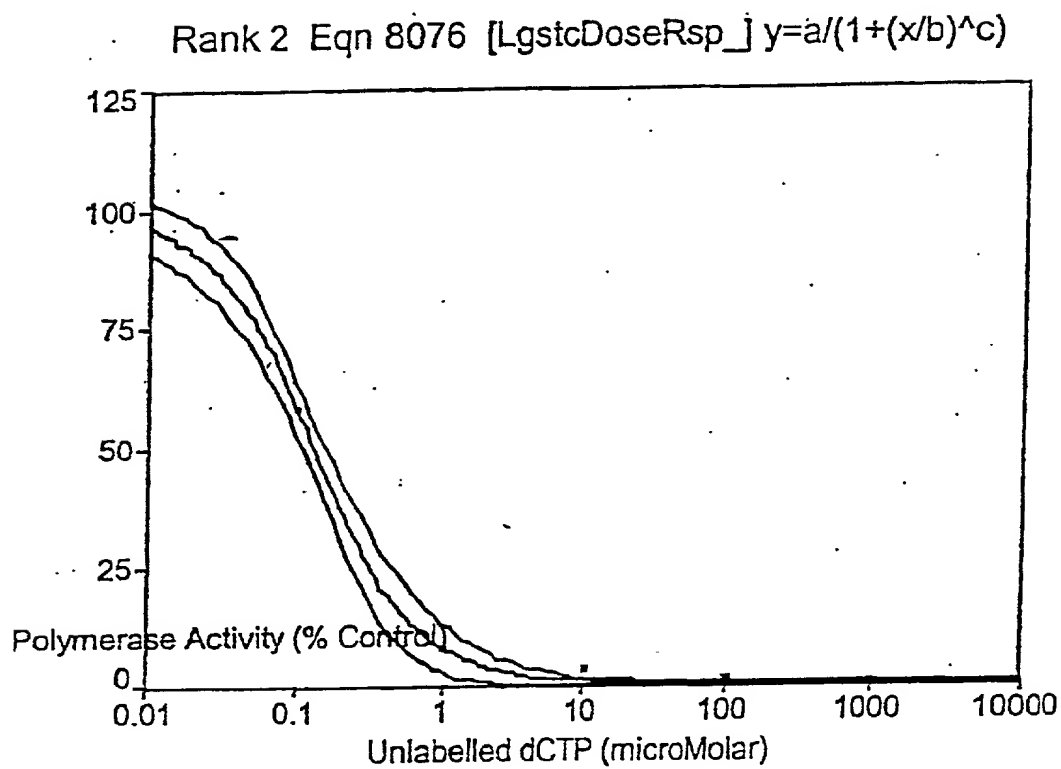
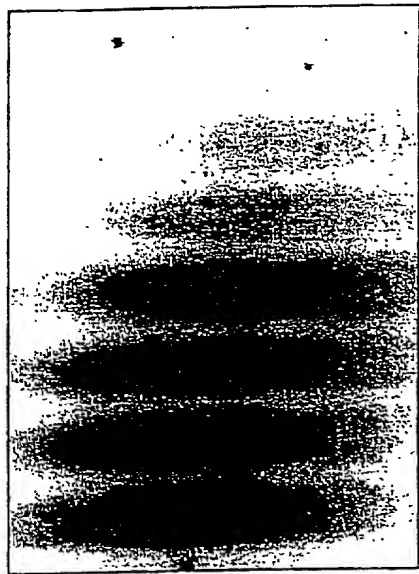


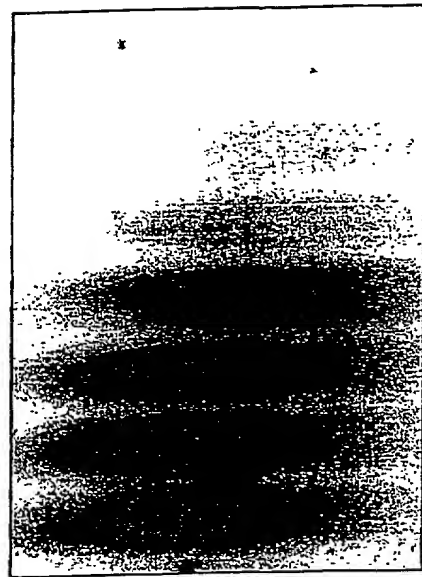
Figure 10

WT



RC
DS
SS

Adefovir (μM) 0 0.01 0.05 0.1 1 10 100



RC
DS
SS

0 0.01 0.05 0.1 1 10 100

Figure 11A

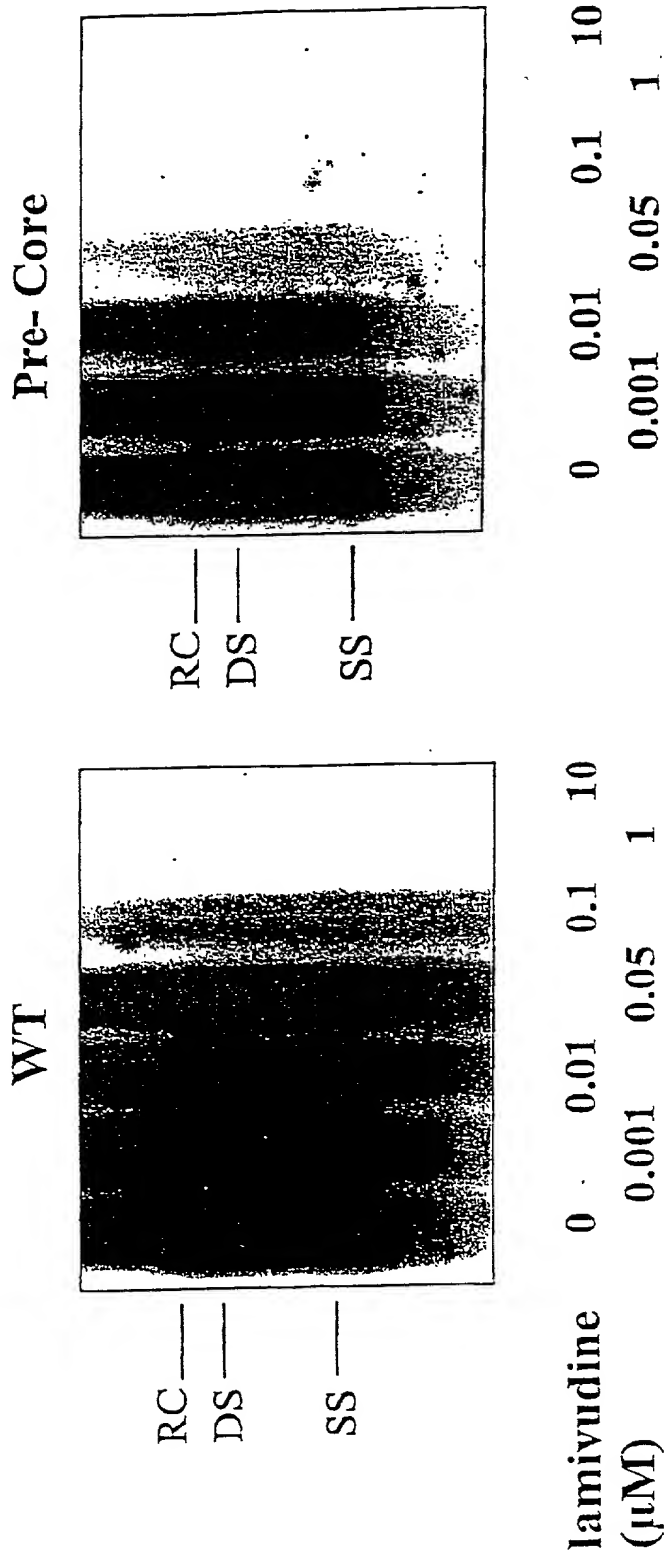


Figure 11B

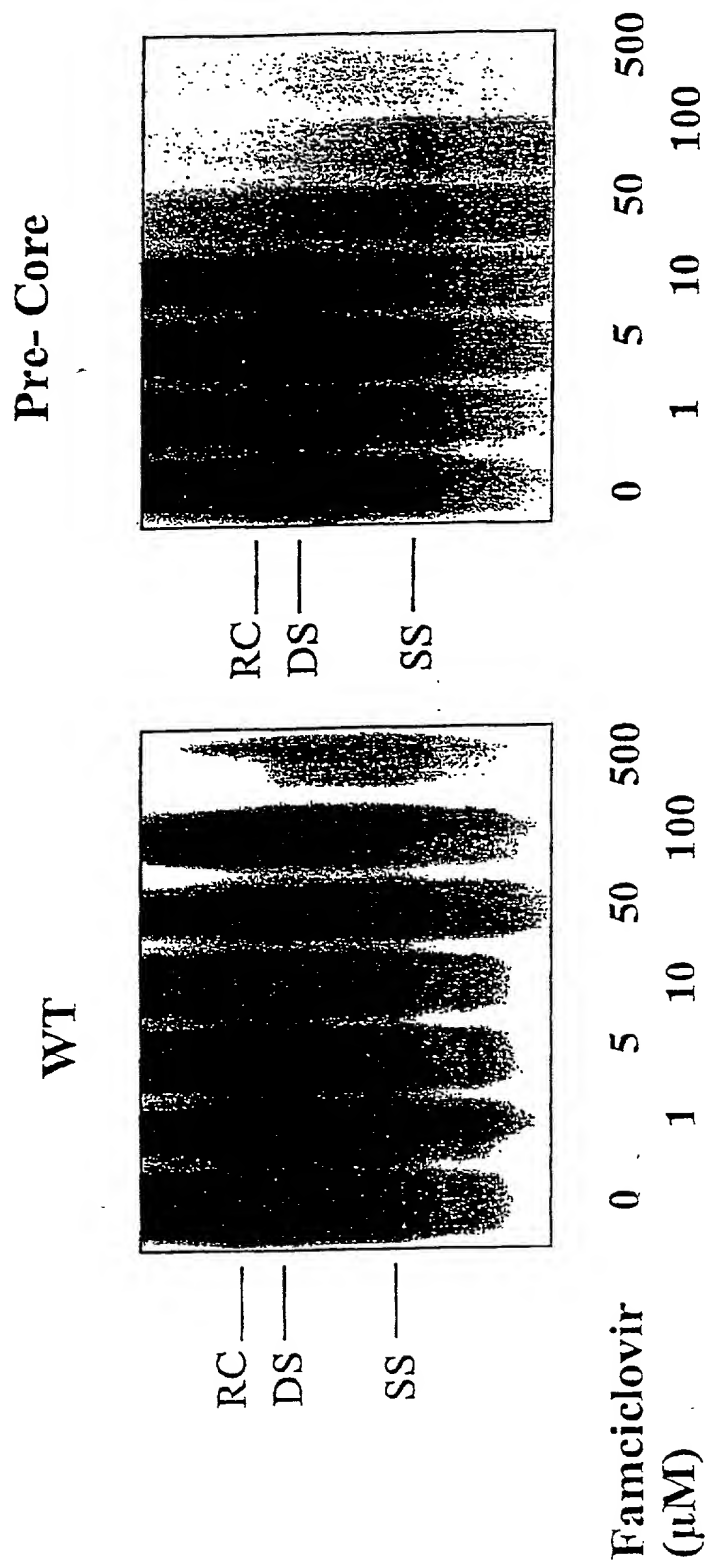


Figure 11C

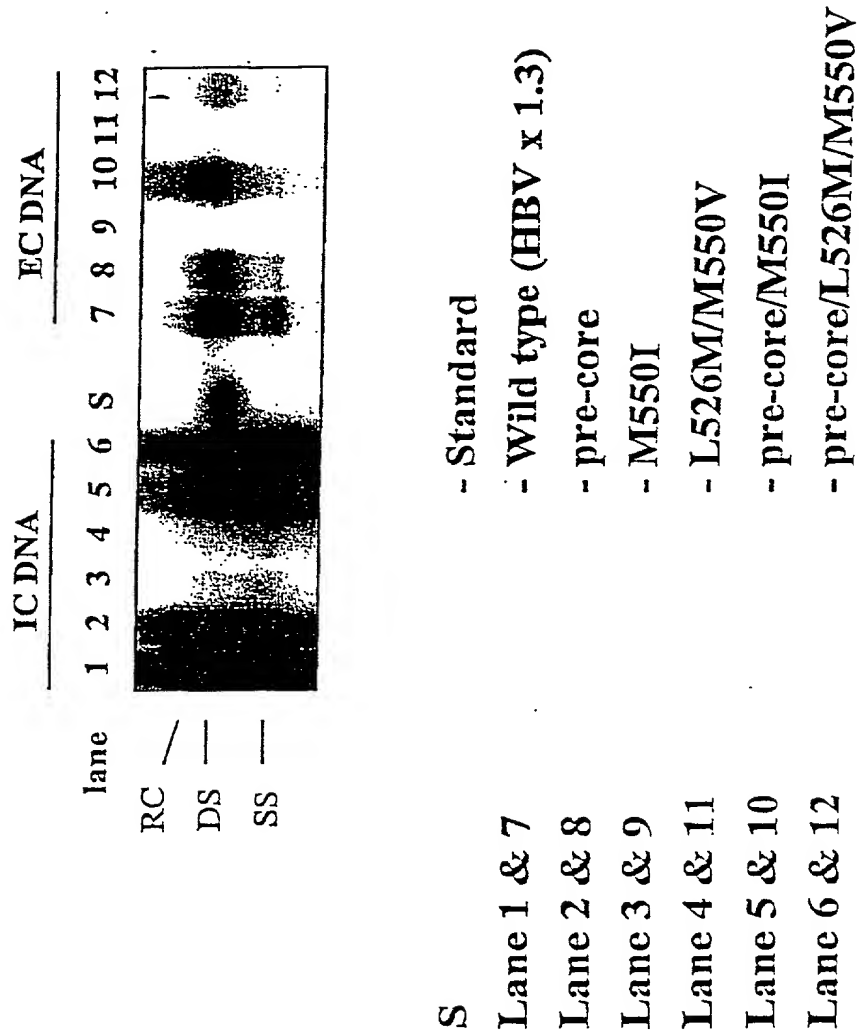
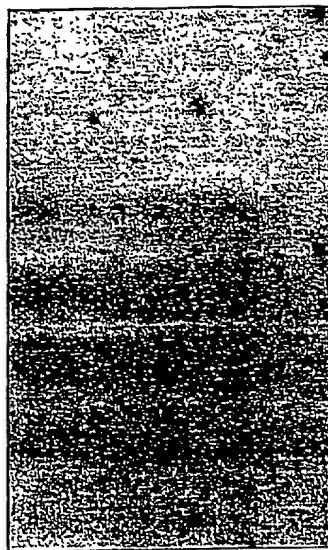
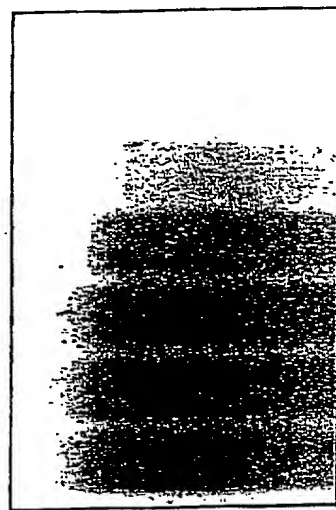


Figure 12

Pre-core/M550I

M550I



RC —
DS —
SS —

IC —
DS —
SS —



RC —
DS —

EC

Adefovir	0	0.05	1	100
(μ M)	0.01	0.1	10	

Figure 13A

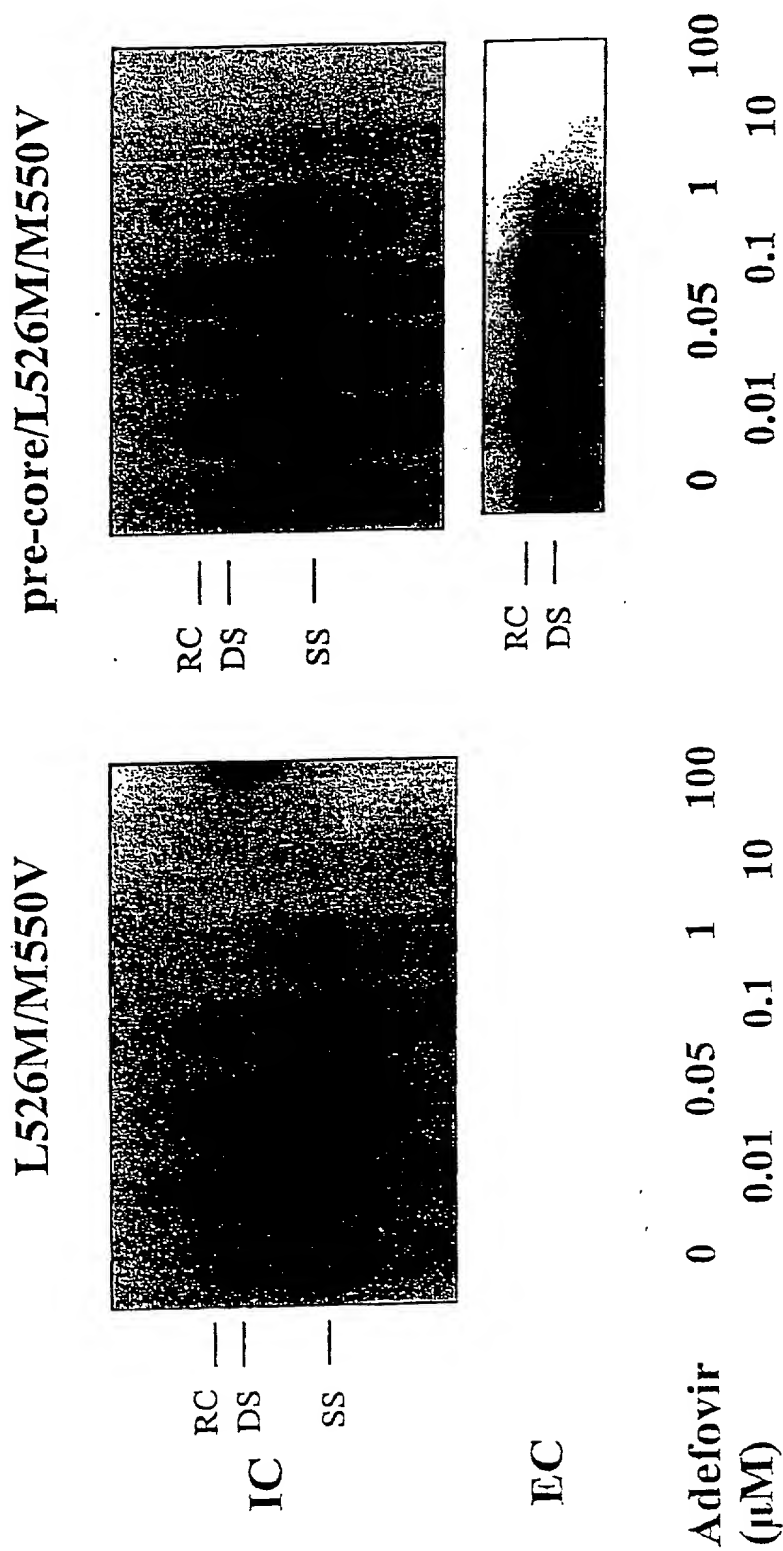


Figure 13B

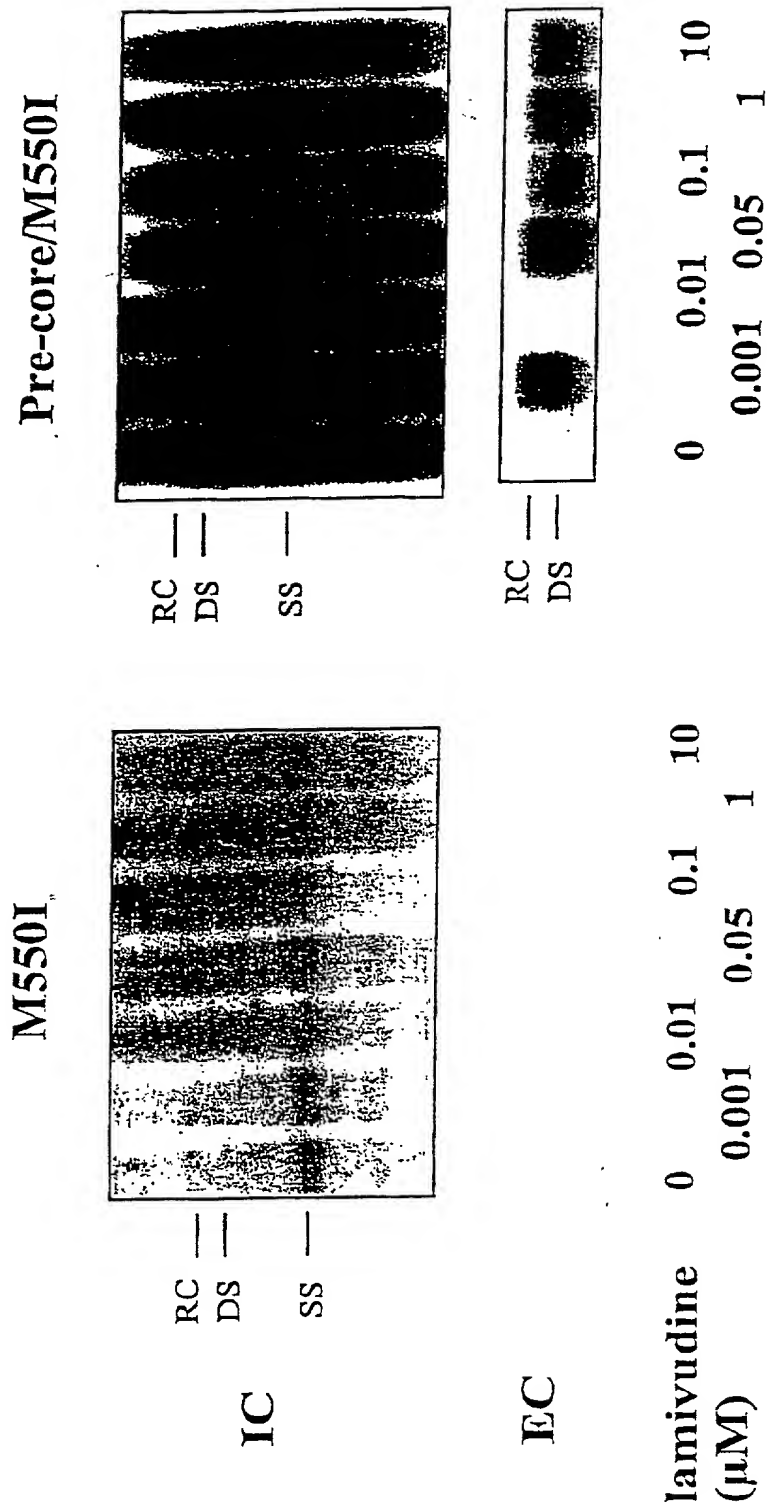


Figure 13C

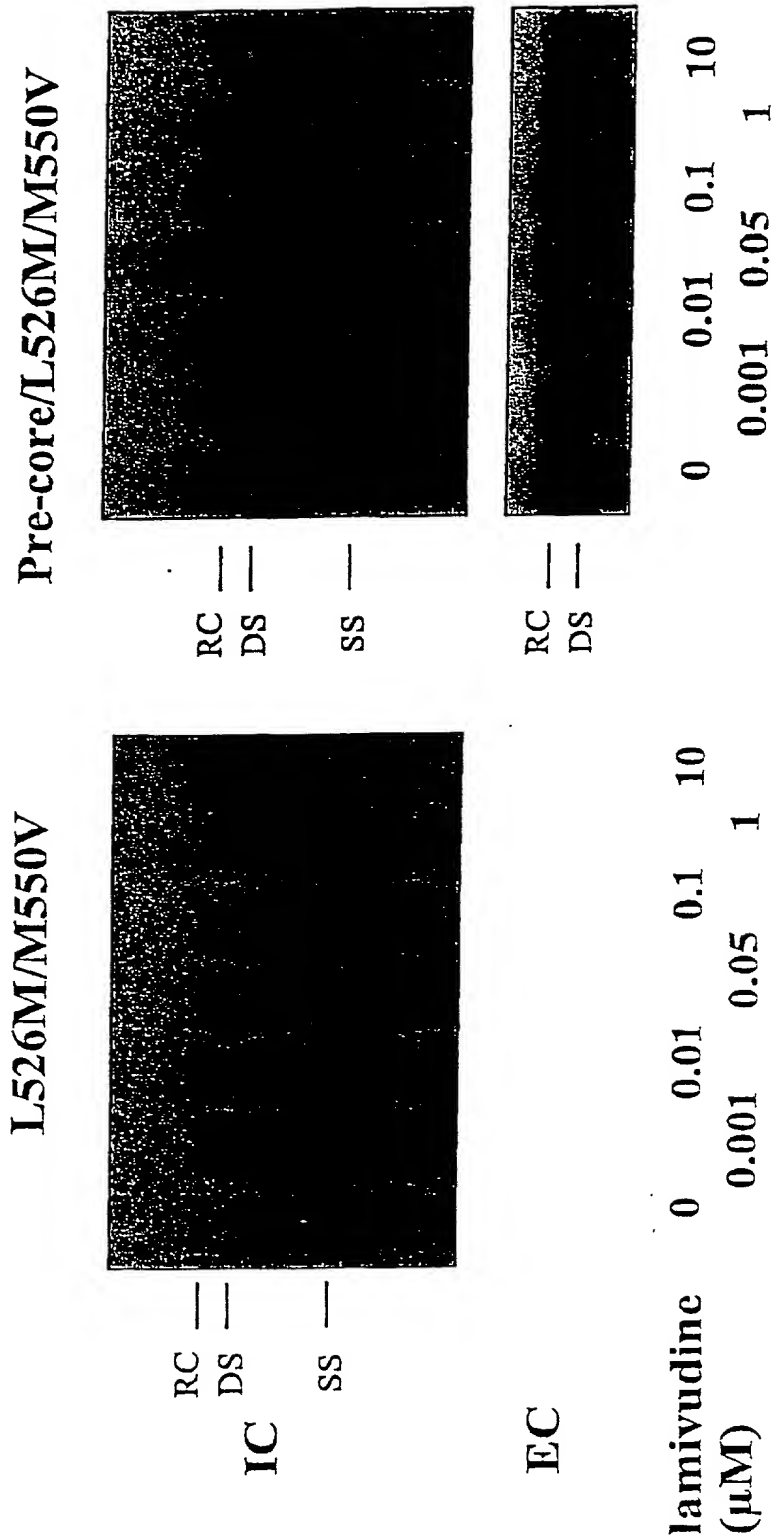


Figure 13D

Pre-core/M550I

M550I

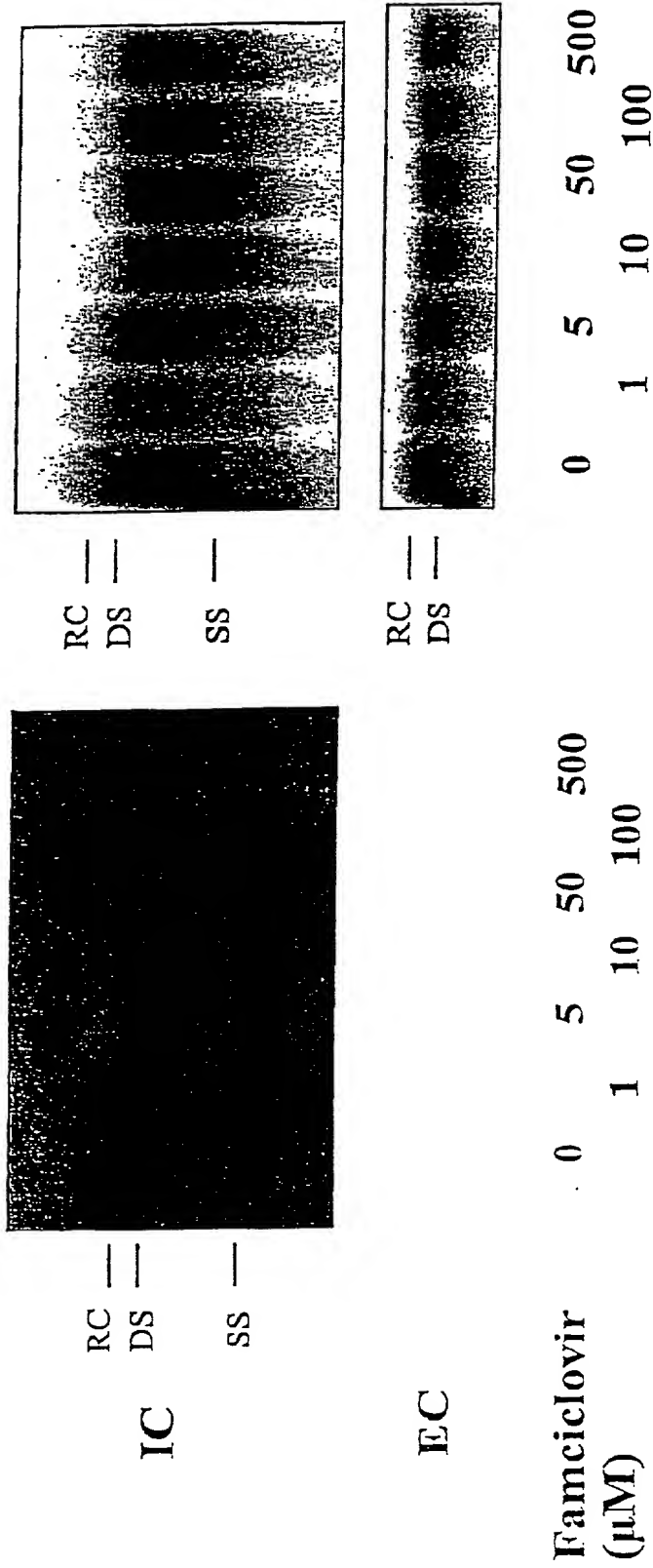


Figure 13E

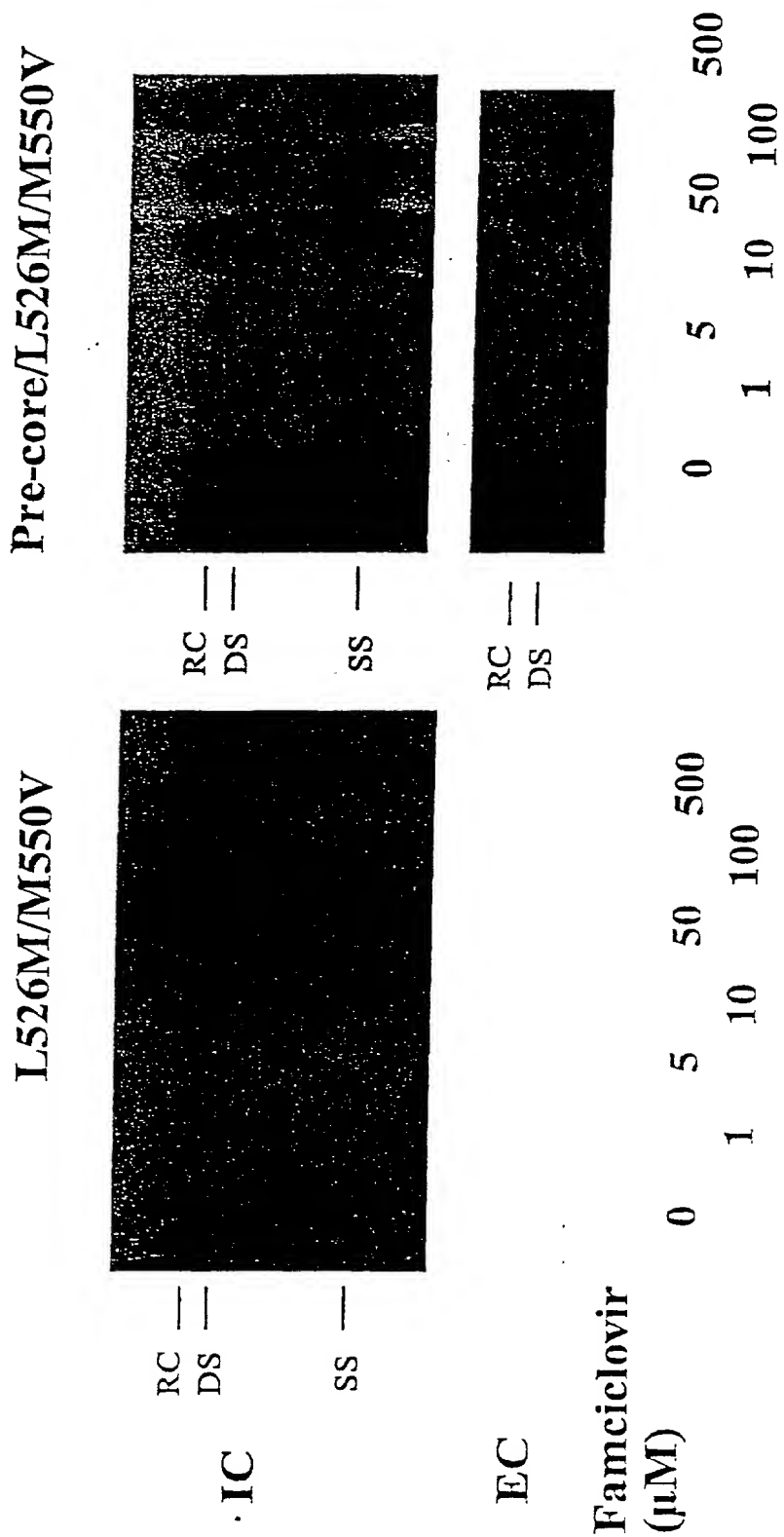


Figure 13F